

Claims

1. An anti-virus agent acting against single stranded RNA (+) viruses, comprising the following components (A) and (B),
 - (A) a nucleotide sequence directing the synthesis of the complementary strand of the single stranded virus;
 - (b) a nucleotide sequence containing at least a regulatory region operably linked to a structural gene encoding a toxin,
 wherein the nucleotide sequence encoding the toxin is positioned in an antisense direction.
2. The anti-virus agent according to claim 1, wherein component (A) is derived from the 5'- and/or 3'-untranslated regions of a ss(+)RNA virus.
3. The anti-virus agent according to claim 2, wherein wherein the component(A) is derived from the 3' untranslated region of the HCV virus.
4. The anti-virus agent according to any of the preceding claims, wherein the regulatory region comprises from the Shine-Dalgarno sequence or the internal ribosomal binding site (IRBS) of the genomic RNA of the poliovirus vaccine strain Sabin 2
5. The anti-virus agent according to any of the preceding claims, wherein the toxin is selected from the group comprising diphtheria exotoxin, diphtheria exotoxin A-subunit, Shigella toxin, Disenteria toxin.
6. The anti-virus agent according to any of the preceding claims, which comprises a DNA or a RNA vector.
7. Use of an anti-virus agent according to any of the preceding claims for the manufacture of a medicament for treating a viral disease.

8. The use according to claim 7, wherein the viral disease is caused by a hepatitis virus type B, C, D and or E, the Dengue virus, unclassified flaviviridae, Rubella virus, Yellow fever virus, Dengue virus, bovine viral diarrhoea virus, swine fever virus, foot and mouth disease virus.

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Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Education (years)	Mean (SD)
Male	12.5 (2.1)
Female	12.8 (2.3)
Marital status	
Married	78%
Divorced	12%
Widowed	10%
Single	2%
Occupation	
Professional	35%
Managerial	25%
Technical	20%
Service	15%
Unemployed	5%
Retired	2%
Income (USD/month)	Mean (SD)
Male	1,200 (300)
Female	1,150 (280)
Health status	
Good	65%
Fair	25%
Poor	10%